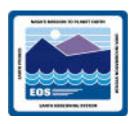


# Science Software Installation Carey Gire

cgire@eos.hitc.com

30 October 1995

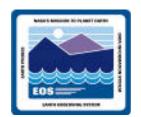
### **Push Scenario Phase I**



### **Science Software Installation**

- Defines Activities Associated with Science Software Integration & Test and the Definition of the Data Collection for an Earth Science Data Type (ESDT)
- Associated Subscenarios:
  - Building ESDTs & Services for a Collection
  - Science Software Archive Package (SSAP) Ingestion and Validation
  - Science Software Integration & Test
  - Collection Instantiation

### **Building ESDTs & Services for a Collection**



### **Context Setting**

### **Description**

Set up ESDT definitions within the Data Server

#### **Assumptions**

- Preconditions--completion of data modeling for new ESDT
- Ops Concept assumptions--Data Specialist is responsible for ESDT testing, with limited testing by science end users

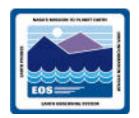
#### **Release B Features**

AM-1 ESDTs

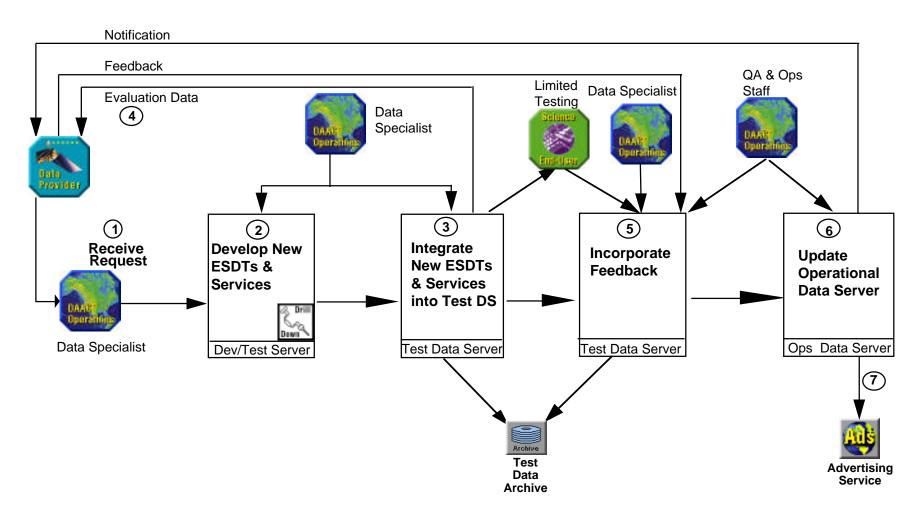
#### **Drill Downs**

Adding New ESDTs and Services

### **Building ESDTs & Services for a Collection**

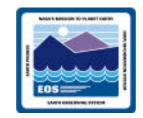


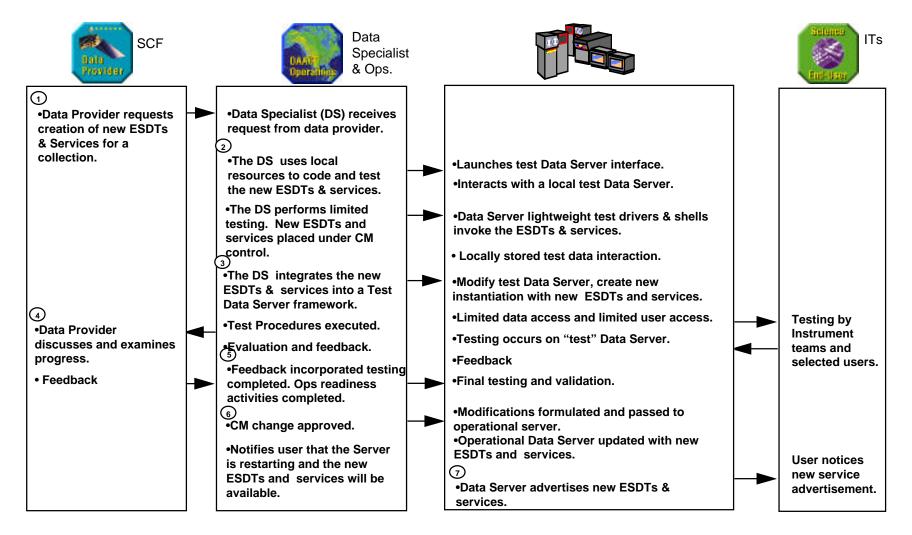
### **Functional Flow**



## **Building ESDTs & Services for a Collection**

### **Points of View**





## SSAP Ingest & Validation Context Setting



#### **Description**

Ingest of SSAP from Instrument Teams at SCFs

#### **Assumptions**

- Preconditions
  - Ingest software set up to receive SSAP
  - SSIT submits subscription for SSAP storage
- Ops Concept Assumptions
  - Instrument Teams may ship SSAP on tape media to SSI&T Team
  - Instrument Teams may use GUI to transfer SSAP via the network
  - Data Ingest Technician supports tape media handling

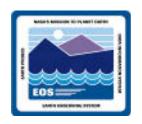
#### Release B Features

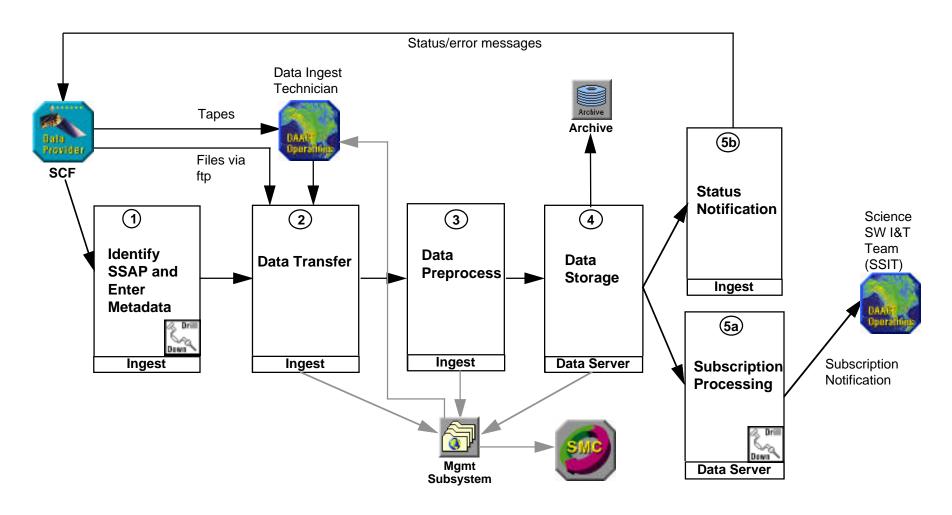
Data Preprocessing (Metadata Extraction) of AM-1 Data

#### **Drill Downs**

- External I/Fs
- Subscriptions

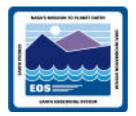
### SSAP Ingest & Validation Functional Flow

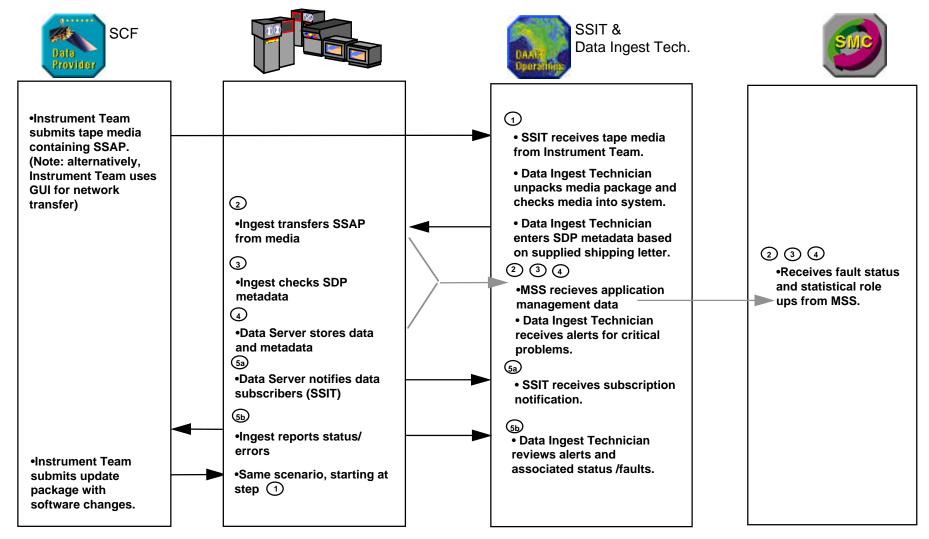




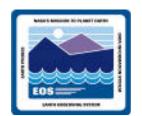
### **SSAP Ingest & Validation**

### **Points of View**





## Science Software Integration & Test



### **Context Setting**

#### **Description**

Collaborative I&T With Instrument Teams (Remotely) and DAAC Operations

### **Assumptions**

- Preconditions--SSI&T Plan, ESDT Setup, Ingest of SSAP
- Ops Concept Assumptions--Joint PGE and PGE Chain Testing by Instrument Teams and SSIT

#### Release B Features

Remote Access by Instrument Teams

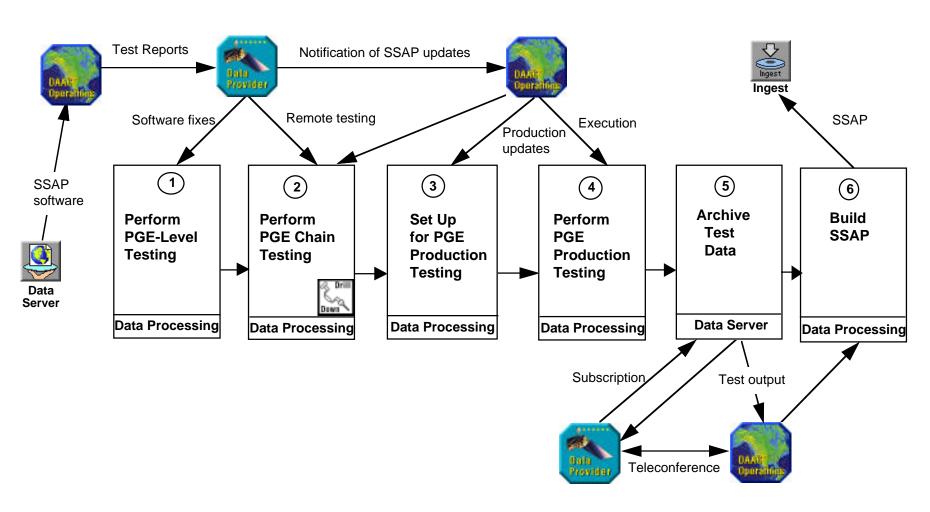
#### **Drill Downs**

Remote Access to SSI&T

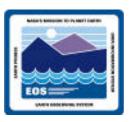
## Science Software Integration & Test

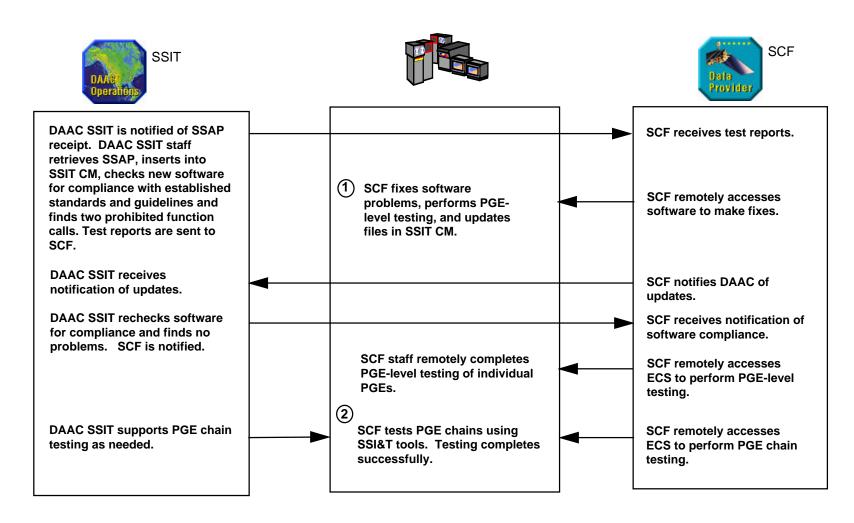
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### **Functional Flow**



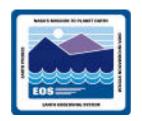
### Science Software Integration & Test Points of View I

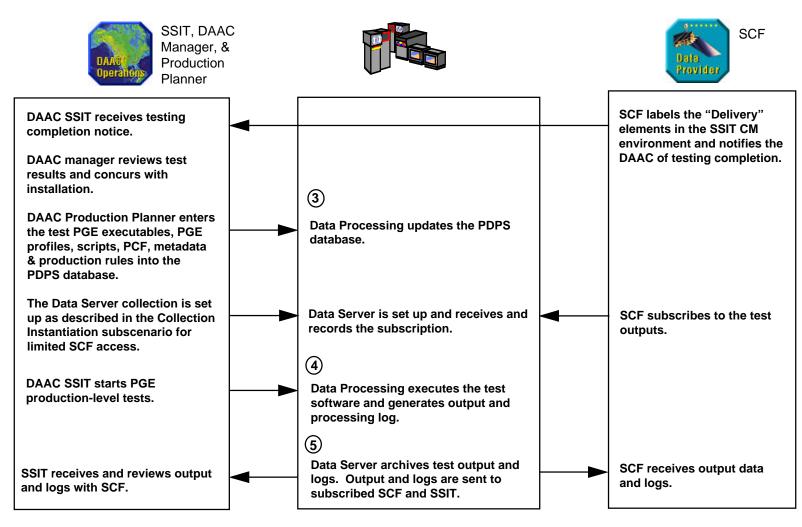




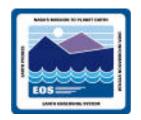
# Science Software Integration & Testing

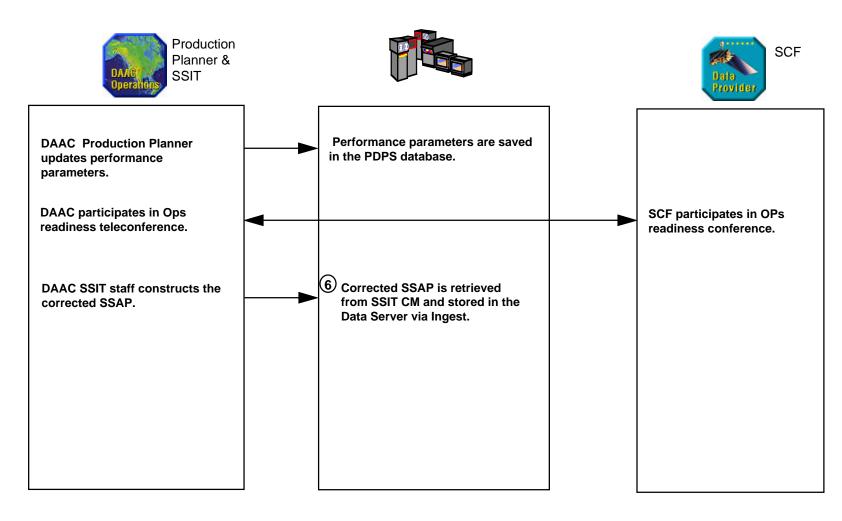
Points of View II



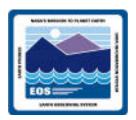


# Science Software Integration & Testing Points of View III





# Collection Instantiation Context Setting



### **Description**

Make ESDTs Accessible to Science User Community

### **Assumptions**

- Preconditions--SSAP Installed In Data Server and Processing
- Ops Concept Assumptions--Infrequent Activity by DAAC Operations

#### **Release B Features**

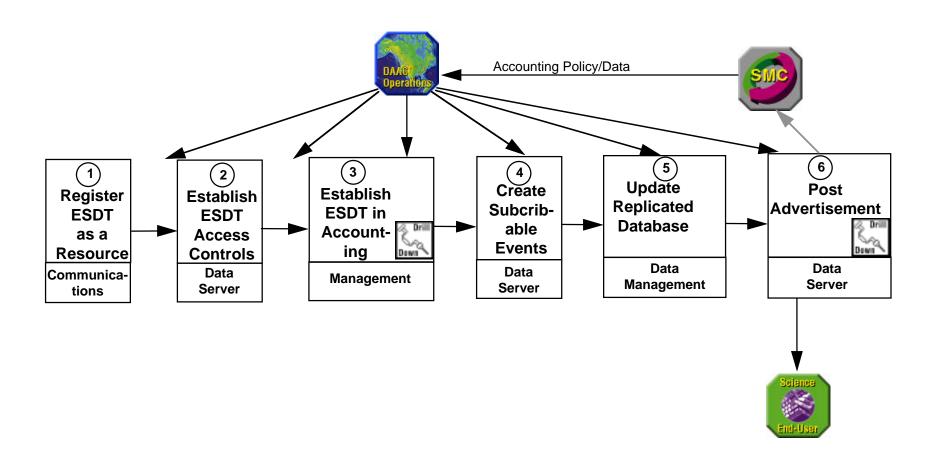
Accounting Setup

#### **Drill Downs**

- Advertiser
- Billing and Accounting

## Collection Instantiation Functional Flow





## Collection Instantiation Points of View

